

31345

STEREO INTEGRATED AMPLIFIER

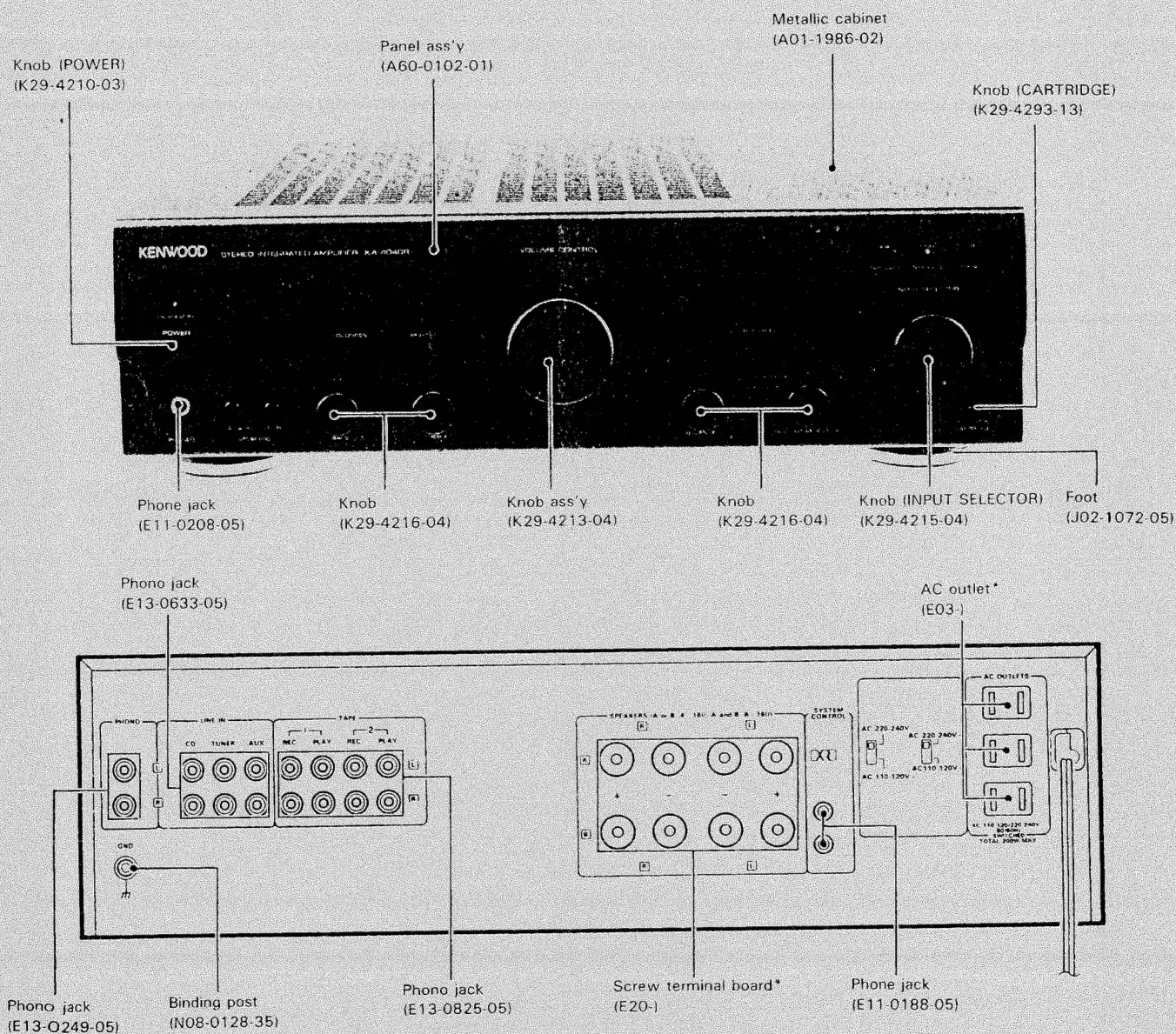
KA-4040R

SERVICE MANUAL

KENWOOD

KENW-03205

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B51-4413-00(S)2007




*Refer to parts list on page 25.

CONTENTS

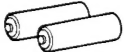
REMOTE CONTROL OPERATION.....	3	SCHEMATIC DIAGRAM.....	17
CIRCUIT DESCRIPTION.....	4	EXPLODED VIEW.....	21
ADJUSTMENT/REGLAGE/ABGLEICH.....	10	PARTS LIST.....	23
WIRING DIAGRAM.....	11	SPECIFICATIONS.....	27
PC BOARD.....	13		

Accessories

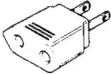
Remote control unit..... 1
(X94-1000-00) (A09-0115-13: Battery cover)



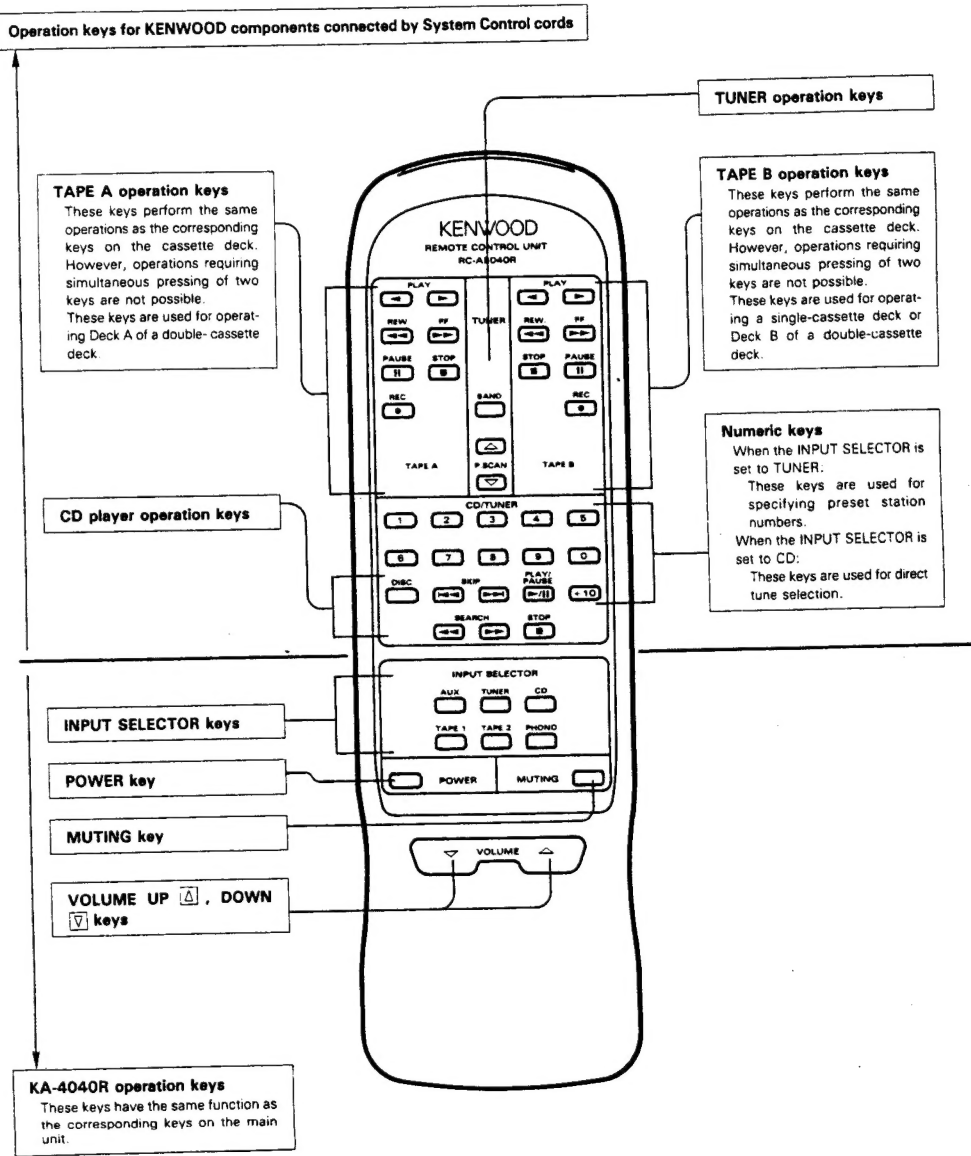
Batteries
(R03/UM-4/"AAA"/)..... 2



AC plug adaptor..... 1
(Except for some areas.)
For the unit with a European AC plug in areas other than Europe.
(E03-0115-05)



REMOTE CONTROL OPERATION



MICROPROCESSOR (μ PD75104G-778)

1. TEST MODE

1.1 Test Mode Using Mainframe Keys

(1) Setting

Plug in while pressing the SOURCE DIRECT key.

(2) Contents

- Switch the power on so that all LED indicators go on. Operate all TACT keys and the rotary encoder to cancel all the LED indicators that go on. In the all-light mode, all the INPUT SELECTOR LED indicators do not go on at the same time. The next SELECTOR LED indicator goes on approximately 100 ms after one SELECTOR LED indicator goes on in the same order as during input selector selection using the rotary encoder, because the output current exceeds the absolute maximum rating when all the INPUT SELECTOR LED indicators go on, since each LED indicator is directly driven by a microcomputer.
- When the LOUDNESS key is pressed while the test mode is set with a mainframe key, The electromotive VOLUME decreases. When the MUTING key is pressed, the VOLUME increases. The VOLUME stops when the SOURCE DIRECT key is pressed.

(3) Cancellation

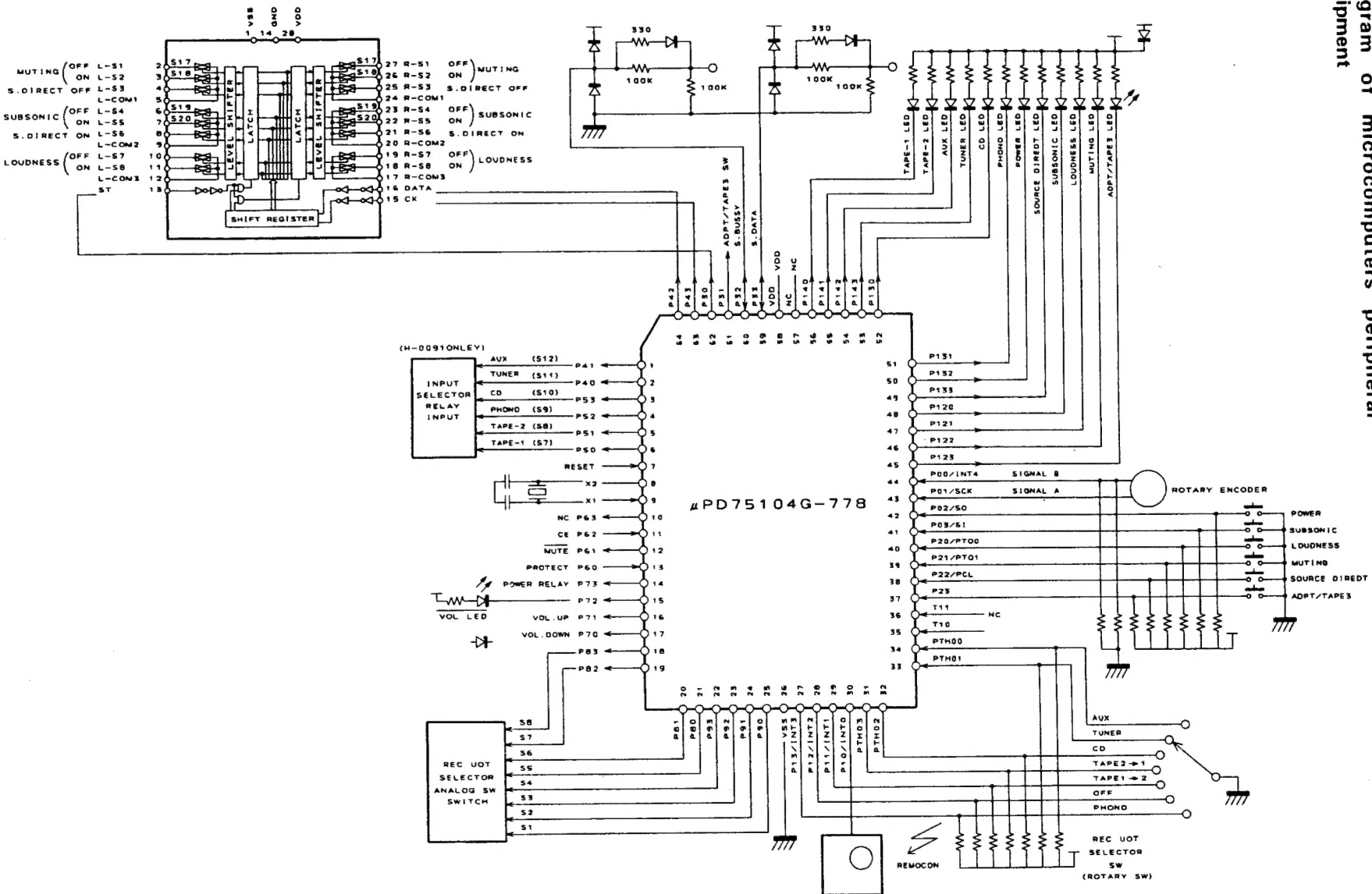
- Plug off. If there a backup function is to be used, plug off and destroy the backup check data when a test mode flag is set during backup operation.

2. INITIALIZING

Insert the AC plug into a wall outlet while pressing the POWER key.

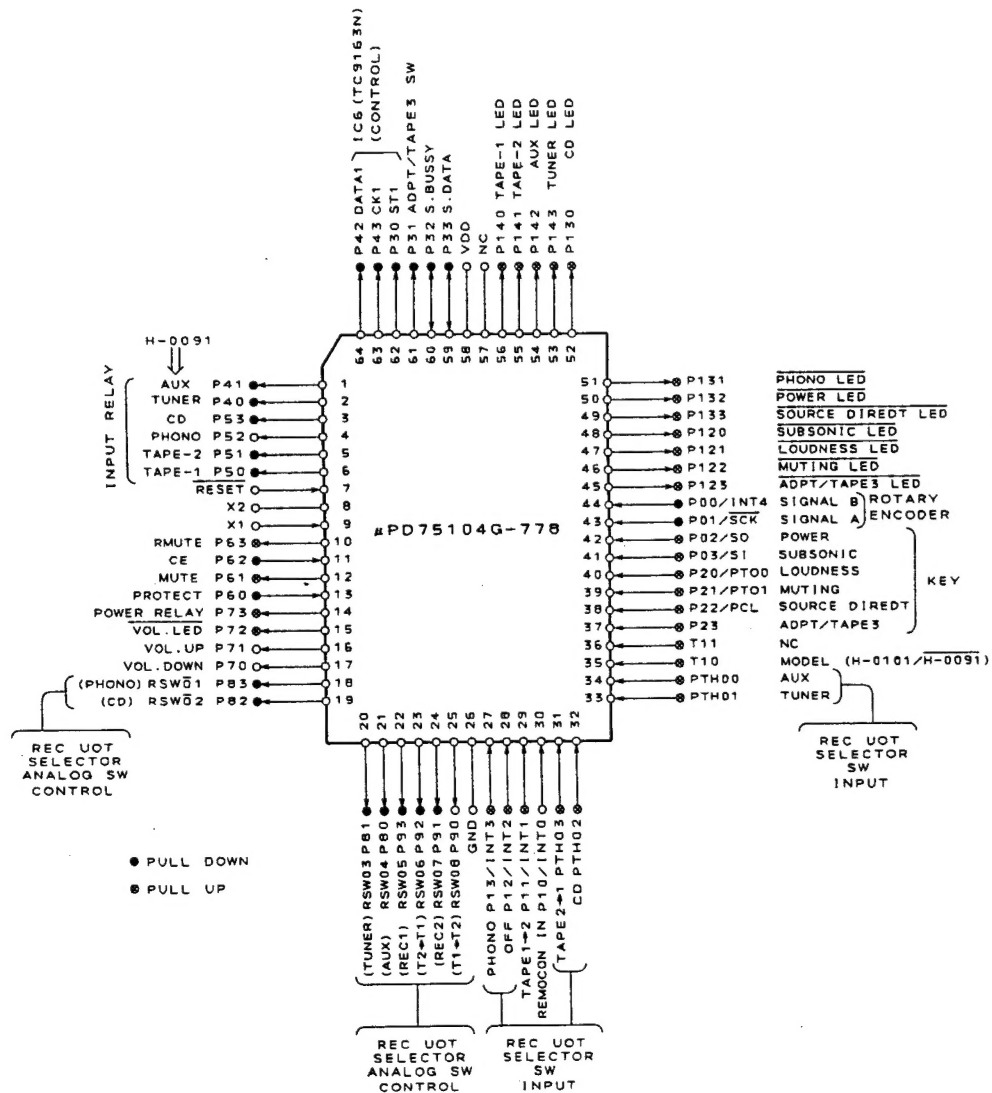
CIRCUIT DESCRIPTION

3. Diagram of microcomputers peripheral equipment



CIRCUIT DESCRIPTION

4. PIN CONNECTIONS



CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Name	Description
1	P41	O	SRAUX	AUX SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
2	P40	O	SRTUNER	TUNER SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
3	P53	O	SRCD	CD SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
4	P52	O	SRPHONO	PHONO SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
5	P51	O	SRTAPE2	TAPE2 SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
6	P50	O	SRTAPE1	TAPE1 SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
7	/RESET	I		Microcomputer reset input pin.
8	X2	O		Ceramic connection pin for microcomputer system clock oscillation (4.19 MHz).
9	X1	I		
10	P63	O	RMUTE	Unused. Enters the input mode during backup.
11	P62	I	/CE	Backup state detection pin (low when active). Enters the input mode during backup.
12	P61	O	MUTE	Mute signal output pin (high when active). Enters the input mode during backup.
13	P60	I	PROTECT	Protect state detection pin (high when active). The POWER LED indicator blinks when a high signal is input to this pin during the power-on sequence. Enters the input mode during backup.
14	P73	O	POWER RELAY	POWER RELAY control pin. POWER ON: High POWER OFF: Low Enters the input mode during backup.
15	P72	O	VOL. LED	Volume index LED control pin. Goes ON: Low Goes OFF: High Enters the input mode during backup.
16	P71	O	VOL. UP	Electromotive volume control Up signal output pin. Volume control Up: High Except volume control Up: Low Enters the input mode during backup.
17	P70	O	VOL. DOWN	Electromotive volume control Down signal output pin. Volume control Down: High Except volume control Down: Low
18-25	P83-P90	O	RSW08-RSW01	Control signal output pin of REC OUT SELECTOR analog switch (high when active). Outputs a signal according to the REC Out selector state as shown on the attached sheet. Outputs a low signal in the backup mode.
26	Vss		GND	Microcomputer GND pin.
27	P13/INT3	I	RSWI (PHONO)	REC out selector state setting input pin (PHONO). (Low when active.)
28	P12/INT2	I	RSWI (OFF)	REC out selector state setting input pin (OFF). (Low when active.)
29	P11/INT1	I	RSWI (TAPE1→2)	REC out selector state setting input pin (TAPE1→TAPE2). (Low when active.)

CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Name	Description
30	PIO/INITO	I	REMOCON IN	Remote control signal input pin.
31	PTH03	I	RSWI (TAPE2→1)	REC out selector state setting input pin (TAPE2 → TAPE1). (Low when active.)
32	PTH02	I	RSWI (CD)	REC out selector state setting input pin (CD). (Low when active.)
33	PTH01	I	RSWI (TUNER)	REC out selector state setting input pin (TUNER). (Low when active.)
34	PTH00	I	RSWI (AUX)	REC out selector state setting input pin (AUX). (Low when active.)
35	TIO	I		Unused.
36	TI1	I		Unused.
37	P23	I	KEYIN (ADPT/TAPE3)	ADPT/TAPE3 key input pin (low when active). Enters the input mode during backup.
38	P22/PCL	I	KEYIN (SOURCE DIRECT)	SOURCE DIRECT key input pin (low when active). Enters the input mode during backup.
39	P21/PTO1	I	KEYIN (MUTING)	MUTING key input pin (low when active). Enters the input mode during backup.
40	P20/PTO0	I	KEYIN (LOUDNESS)	LOUDNESS key input pin (low when active). Enters the input mode during backup.
41	P03/SI	I	KEYIN (SUBSONIC)	SUBSONIC key input pin (low when active).
42	P02/SO	I	KEYIN (POWER)	POWER key input pin (low when active). Enters the input mode during backup.
43	P01/SCK	I	REI A	ROTARY ENCODER A signal input pin. Enters the input mode during backup.
44	PO0/INT4	I	REI B	ROTARY ENCODER B signal input pin.
45	PI23	O	ADPT/TAPE3 LED	ADPT/TAPE3 LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
46	PI22	O	MUTING LED	MUTING LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
47	PI21	O	LOUDNESS LED	LOUDNESS LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
48	P120	O	SUBSONIC LED	SUBSONIC LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
49	P133	O	SOURCE DIRECT LED	SOURCE DIRECT LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
50	P132	O	POWER LED	POWER LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
51	P131	O	PHONO LED	PHONO LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
52	P130	O	CD LED	CD LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.

CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Name	Description
53	PI43	O	TUNER LED	TUNER LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
54	PI42	O	AUX LED	AUX LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
55	PI41	O	TAPE2 LED	TAPE1 LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
56	PI40	O	TAPE1 LED	TAPE1 LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
57	NC			
58	Vdd			Microcomputer power supply pin.
59	P33	I/O	SDATA	Serial communication SDATA signal input/output pin. Enters the input mode during backup.
60	P32	I/O	SBUSY	Serial communication SBUSY signal input/output pin. Enters the input mode during backup.
61	P31	O	ADPT/TAPE3	ADPT/TAPE3 analog switch control signal output pin. ADPT/TAPE3 ON: High ADPT/TAPE3 OFF: low Outputs a low signal in the backup mode.
62	P30	O	ST1	FUNCTION IC TC9163N ST signal output pin for MUTING, SUBSONIC, SOURCE DIRECT, and LOUDNESS. Usually set low. Outputs a low signal in the backup mode.
63	P43	O	CK1	FUNKTION IC TC9163N CK signal output pin for MUTING, SUBSONIC, SOURCE DIRECT, and LOUDNESS. Usually set low. Outputs a low signal in the backup mode.
63	P43	O	DATA1	FUNKTION IC TC9163N DATA signal output pin for MUTING, SUBSONIC, SOURCE DIRECT, and LOUDNESS. Usually set low. Outputs a low signal in the backup mode.

ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

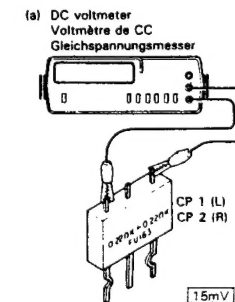
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows: POWER: ON SPEAKER: B REC OUT: OFF SELECTOR: PHONO							
1	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L) CP2 (R) (X09-)	VOLUME: 0	VR1 (L) VR2 (R) (X09-)	15 mV (34 mA).	(a)

REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS DE L'ALIGNMENT	ALIGNER POUR	FIG.
Sauf indication contraire, régler comme suit les commandes respectives: POWER: ON SPEAKER: B REC OUT: OFF SELECTOR: PHONO							
1	COURANT DE POLARISATION	—	Connecter un voltmètre de CC SUR CP1 (G) CP2 (D) (X09-)	VOLUME: 0	VR1 (G) VR2 (D) (X09-)	15 mV (34 mA).	(a)

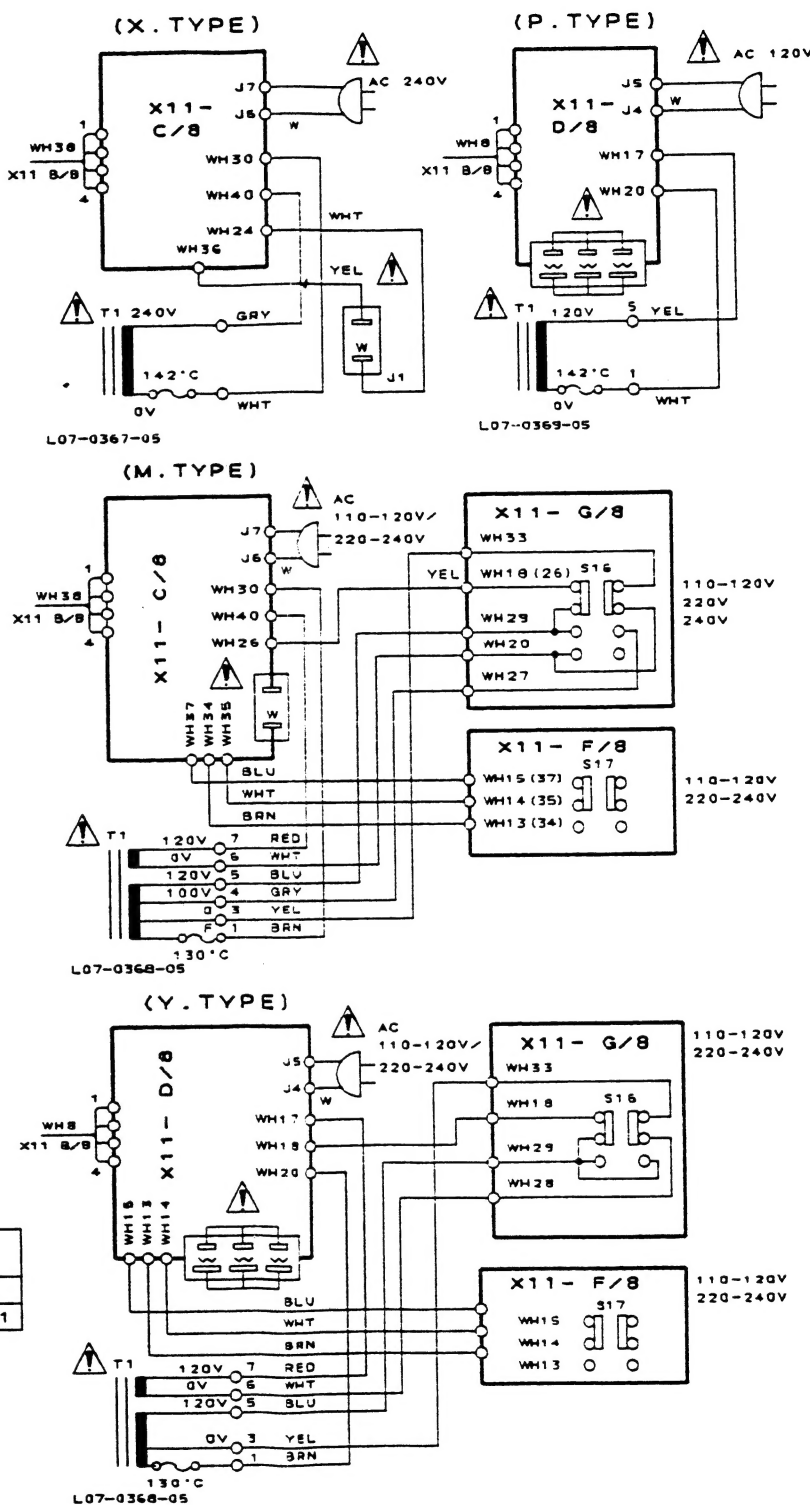
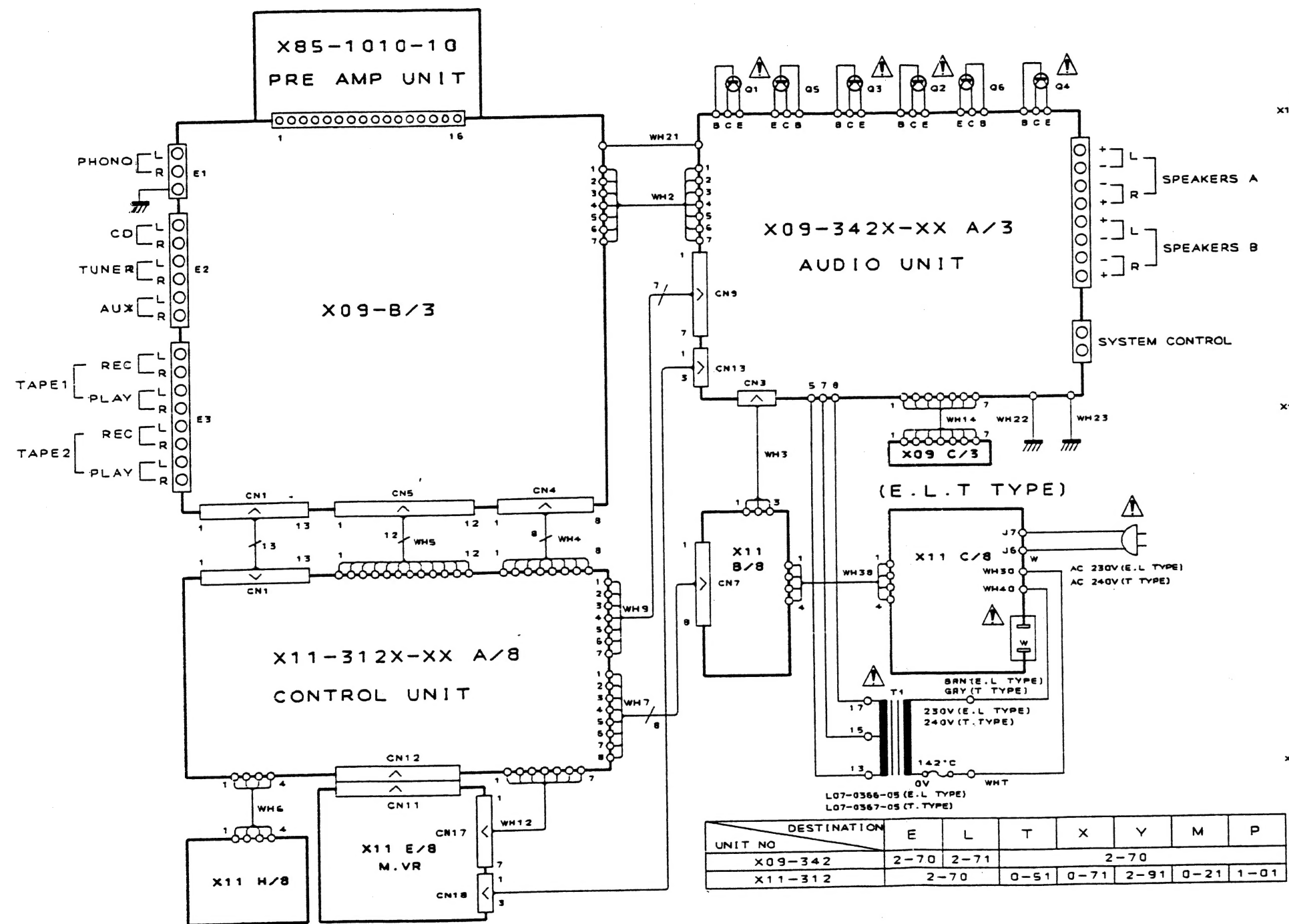
ABGLEICH

NR.	GENGENSTAND	EINGANGS-EINSTELLUNG	AUSANG-EINSTELLUNG	VORSTÄRKER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
Wenn nicht anders angegeben, die einzelnen Schalter wie folgt einstellen: POWER: ON SPEAKER: B REC OUT: OFF SELECTOR: PHONO							
1	LEERLAUFSTROM	—	Einen Gleichspannungsmesser über CP1 (L) CP2 (R) anschließen. (X09-)	VOLUME: 0	VR1 (L) VR2 (R) (X09-)	15 mV (34 mA).	(a)



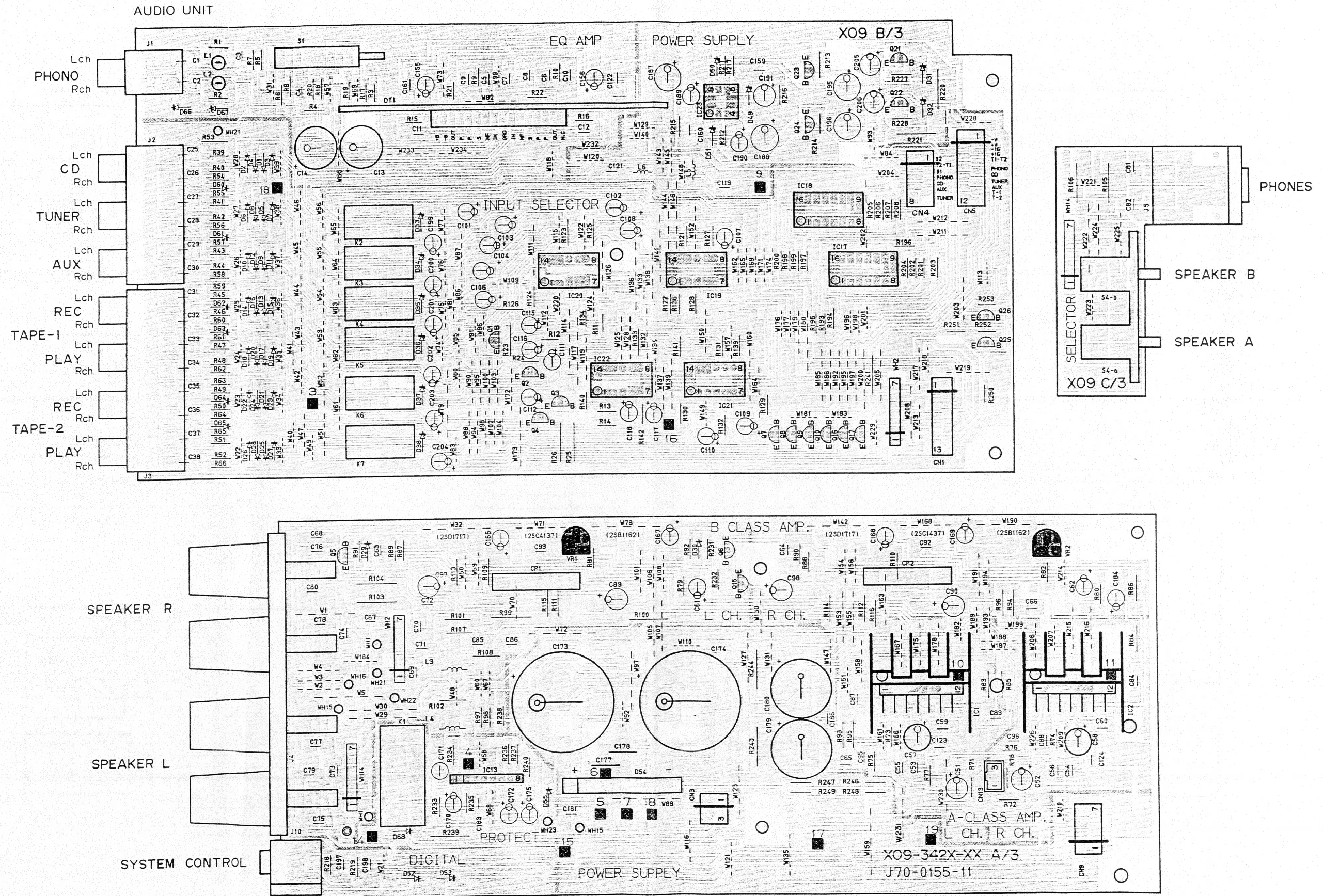
KA-4040R KA-4040R

WIRING DIAGRAM



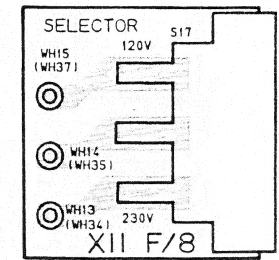
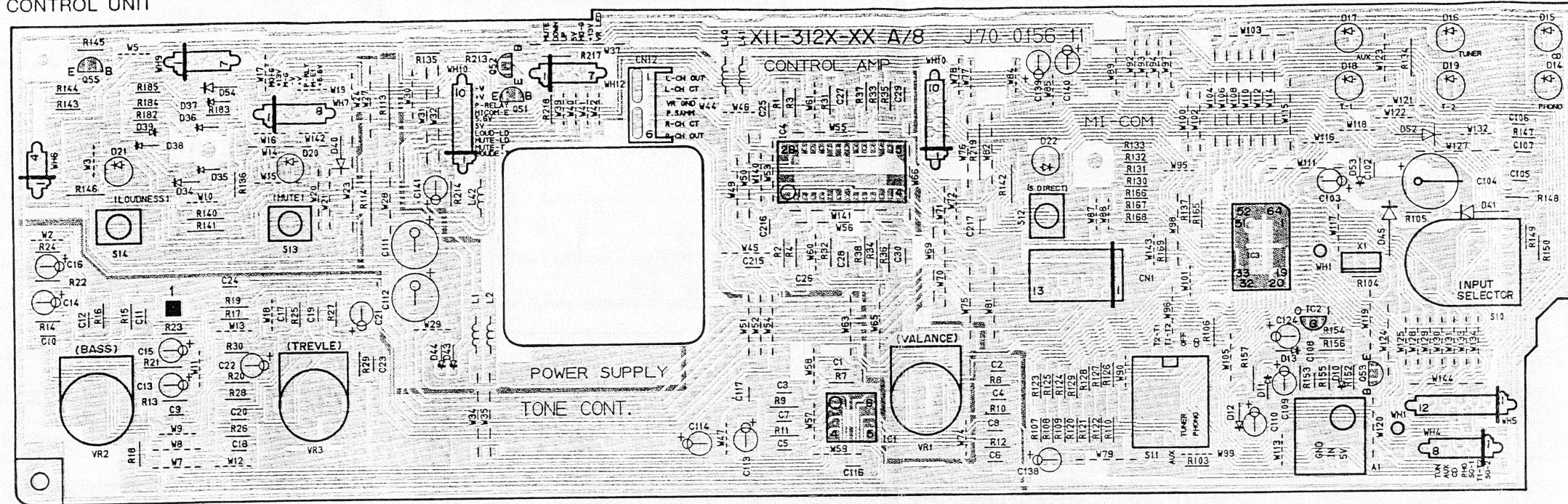
UNIT NO	DESTINATION	E	L	T	X	Y	M	P
X09-342		2-70	2-71		2-70			
X11-312		2-70	0-51	0-71	2-91	0-21	1-01	

PC BOARD (Component side view)

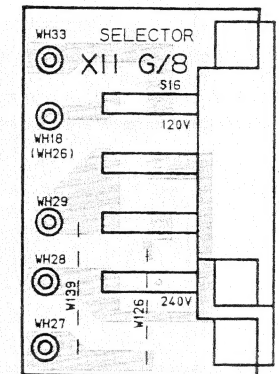


PC BOARD (Component side view)

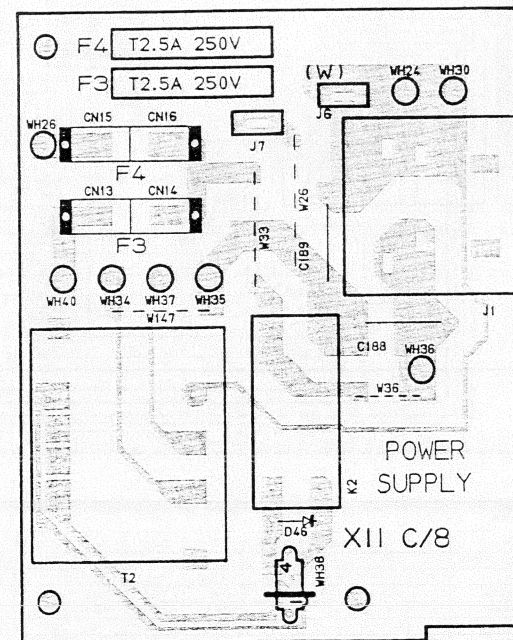
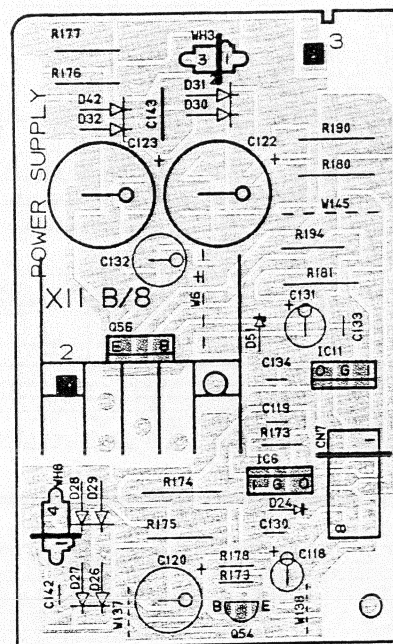
CONTROL UNIT



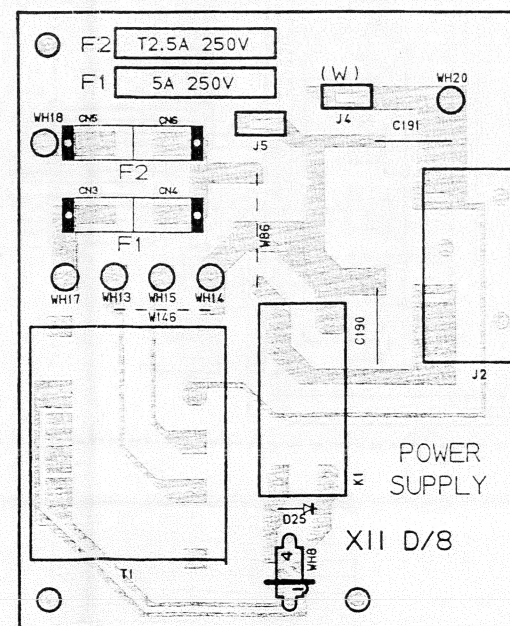
VOLTAGE SELECTOR



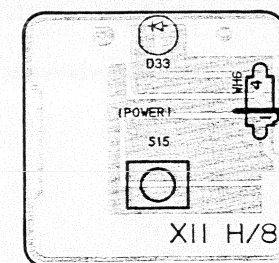
VOLTAGE SELECTOR



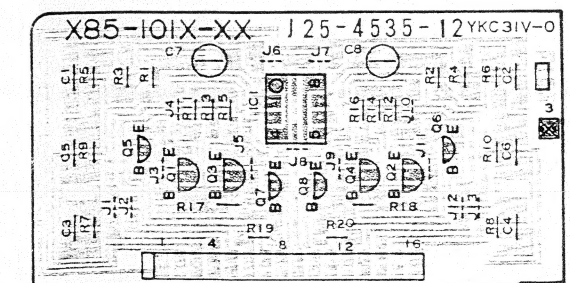
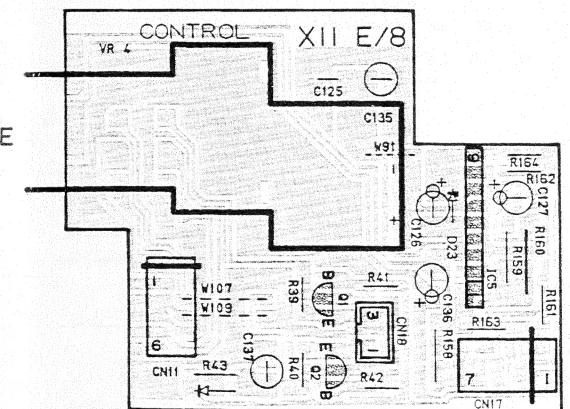
AC OUTLET



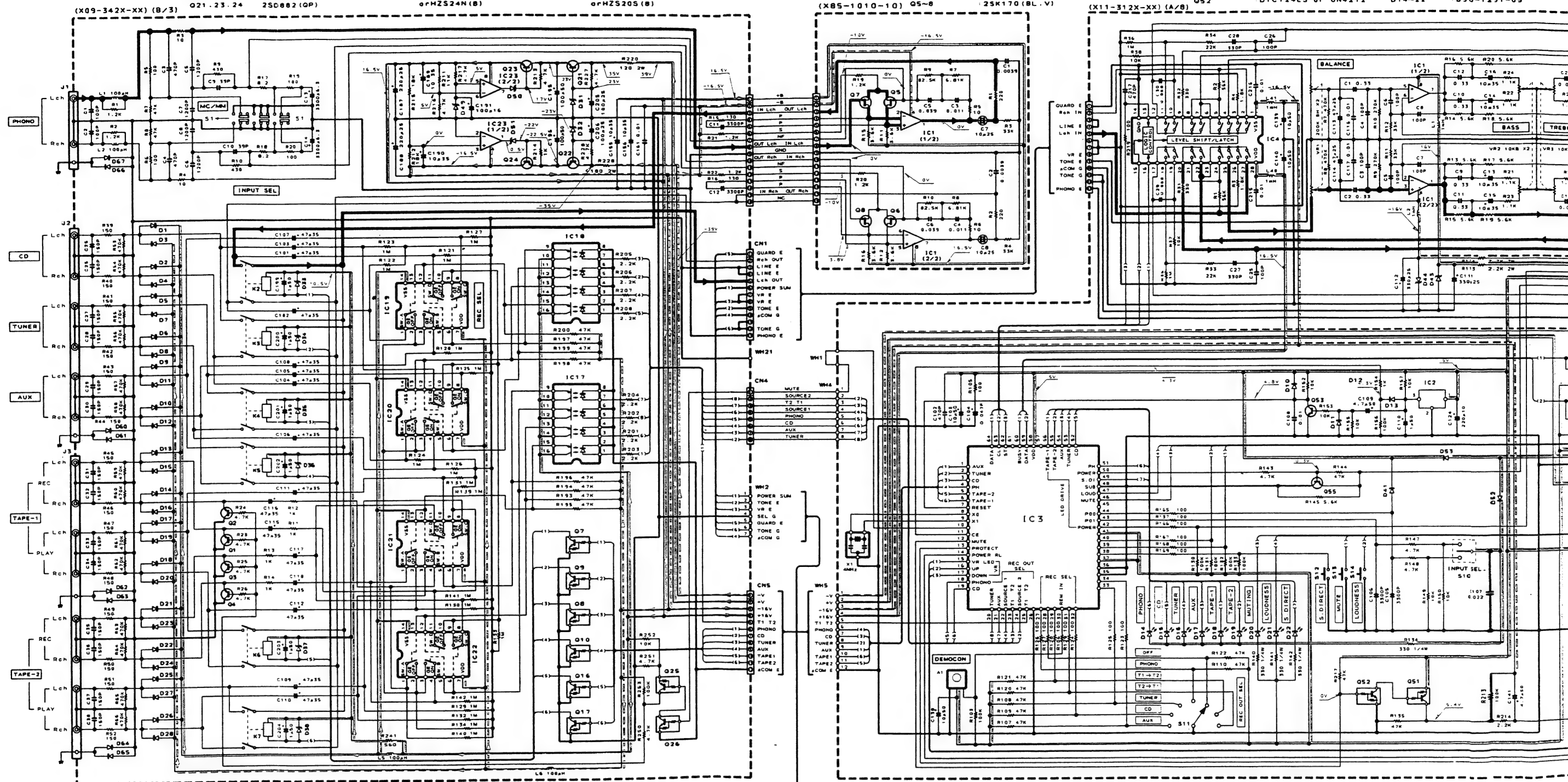
AC OUTLET



MASTER VOLUME



IC17-18 IC19-22 IC23	ON3134 LC4966 NJM45650-D	Q26 Q27 Q28	DTA124ES DTC143TS 1SS133 or HSS104	Q33-38 Q49 Q50 Q51	RD11ES (B) or HZ511N (B) RD5.1JS (B2) or HZ55.13 (B2) RD15JS (B) or HZ515S (B) RD20JS (B) or HZ520S (B)	(X11-312X-XX) (A/B) IC1 IC2 IC3 IC4	NJM45650-D PST829C or PD75104GF-778 TC9163N	Q53 Q55	2SC1740 (QR) or 2SC1 2SA933S (QR) or 2SA1
Q1-4 Q7-10.16.17 Q22 Q21.23.24	2SC2078 (B) DTC143TS 2SB772 (QP) 2SD882 (QP)	D61-68 D31-32	1SS131 or HSS104A RD24ES (B) or HZ524N (B)			Q51 Q52	DTA124ES or UN4112 DTC143TS or UN4212	D10-13. 34-39.41. 45.53 D14-22	1SS133 or HSS104 B30-1291-05



X09-342X-XX

COUNTRY	ABB.	UNIT NAME
EUROPE	E	X09-3422-70
SCANDINAVIA	L	X09-3422-71
CANADA	P	X09-3422-70
AAFS EUROPE	Y	X09-3422-70
OTHER AREAS	M	X09-3422-70
AUSTRALIA	X	X09-3422-70
ENGLAND	T	X09-3422-70

X11-312X-XX

COUNTRY	ABB.	UNIT NAME	C/B	D/B	F/B	G/B	C188 189	C190 191	F1	F2	F3	F4	T1	T2
SCANDINAVIA/EUROPE	E, L	X11-3122-70	YES	NO	NO	NO	NO	NO	NO	NO	T2.5A 250V	T2.5A 250V	NO	L01-7653-05
CANADA	P	X11-3121-01	NO	YES	NO	NO	NO	NO	5A 125V	NO	NO	NO	L01-7651-05	NO
AAFS EUROPE	Y	X11-3122-91	NO	YES	YES	YES	NO	NO	NO	T2.5A 250V	T2.5A 250V	NO	L01-7653-05	NO
OTHER AREAS	M	X11-3120-21	YES	NO	YES	YES	NO	NO	NO	NO	T2.5A 250V	T2.5A 250V	NO	L01-7653-05
AUSTRALIA	X	X11-3120-71	YES	NO	NO	NO	NO	NO	NO	NO	T2.5A 250V	T2.5A 250V	NO	L01-7657-05
ENGLAND	T	X11-3120-51	YES	NO	NO	NO	NO	NO	NO	NO	T2.5A 250V	NO	NO	L01-7657-05

2SA992
 2SC1845
 2SC2003
 2SC2878

2SB772
 2SD882

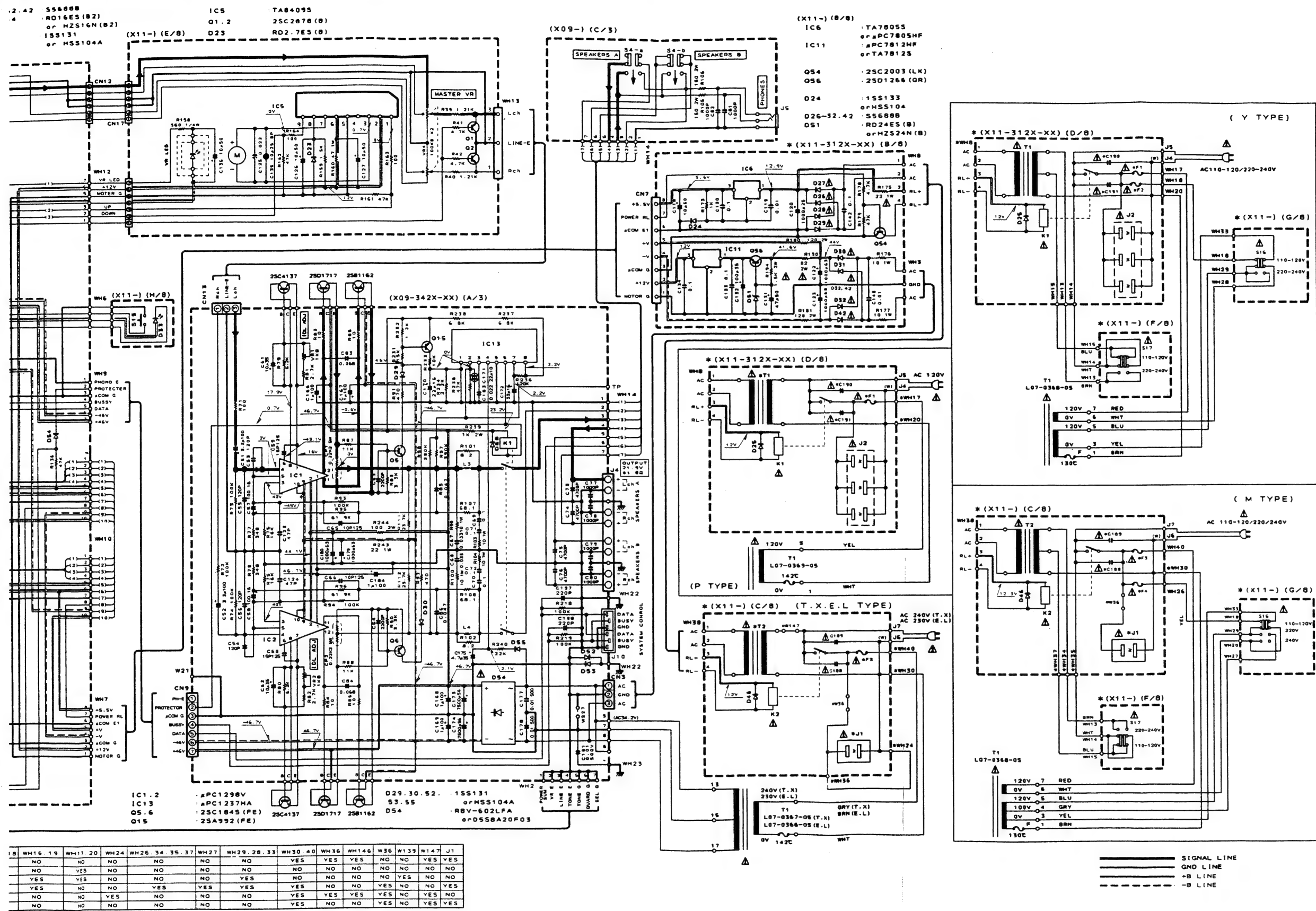
2SD1266

DTA124ES
 DTC143TS
 UN4112
 2SA933S
 2SC1740S

2SB1162BD*5
 2SD1717BD*5

UN4212
 2SA1309A
 2SC3311A

NJM456 0D-N
 NJM456 5D-D

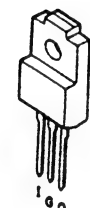


DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or units.

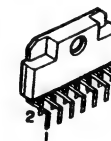
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

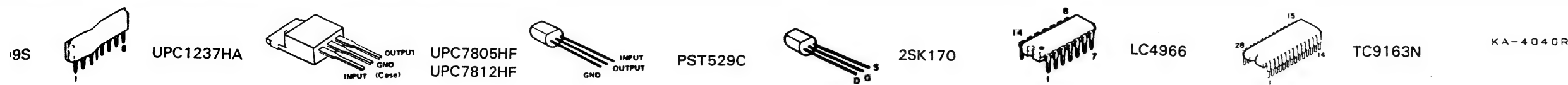
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



TA78055
TA7812S



UPC1298V



KA-4040R
KENWOOD

KENW-3205/DRUCK8

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No. 1

Ref. No. 参照番号	Address 位置	New 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KA-4040R						
601	1A	*	A01-1986-02	METALLIC CABINET		
602	2A, 2B	*	A60-0102-01	PANEL ASSY		
605	1B	*	X94-1000-00	REMOTE CONTROL ASSY		
606	1B	*	A09-0115-13	BATTERY COVER		
609	2A, 3B	*	B01-0483-01	PANEL ESCUTCHEON		
612	2A	*	B43-0287-04	KENWOOD BADGE		
-	-	-	B46-0094-03	WARRANTY CARD		
-	-	-	B46-0095-03	WARRANTY CARD		
-	-	-	B46-0096-23	WARRANTY CARD		
-	-	-	B46-0121-03	WARRANTY CARD		
-	-	-	B46-0122-13	WARRANTY CARD		
-	-	-	B46-0143-13	WARRANTY CARD		
-	-	-	B58-0513-04	CAUTION CARD (PRESET220-240)		
-	-	-	B60-0559-00	INSTRUCTION MANUAL(ENGLISH)		
-	-	-	B60-0560-00	INSTRUCTION MANUAL(FRENCH)		
-	-	-	B60-0561-00	INSTRUCTION MANUAL(GE, DU, IT)		
-	-	-	B60-0562-00	INSTRUCTION MANUAL(CHINESE)		
-	-	-	B60-0566-00	INSTRUCTION MANUAL(SPANISH)		
613	3B, 3C	*	D21-1657-13	EXTENSION SHAFT(K29-4293 ASSY)		
615	1B	*	E03-0115-05	AC PLUG ADAPTER		
616	1D	*	E30-0459-05	AC POWER CORD		
616	1D	*	E30-0459-05	AC POWER CORD		
616	1D	*	E30-0685-05	AC POWER CORD		
616	1D	*	E30-0974-05	AC POWER CORD		
616	1D	*	E30-1341-05	AC POWER CORD		
616	1D	*	E30-1416-05	AC POWER CORD		
618	3B, 2C	*	E31-4747-05	FLAT CABLE (X09CN1-X11CN1) 13P		
-	-	-	E03-0114-05	AC OUTLET		
620	2A	*	G11-0155-14	SOFT TAPE (40X9X2)		
-	-	-	H50-0127-04	ITEM CARTON CASE		
-	-	-	H10-5168-02	POLYSTYRENE FOAMED FIXTURE		
-	-	-	H10-5169-02	POLYSTYRENE FOAMED FIXTURE		
-	-	-	H25-0225-04	PROTECTION BAG (B50X450X0.03)		
-	-	-	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-	-	-	H25-0651-04	PROTECTION BAG (0232 PRINTED)		
-	-	-	H25-0654-04	PROTECTION BAG (0225 PRINTED)		
624	3C, 3D	*	J02-1072-05	FOOT		
625	1B, 1C	*	J19-0514-05	UNIT HOLDER		
626	1C	*	J19-3178-05	UNIT HOLDER		
627	2C	*	J19-3179-05	UNIT HOLDER		
628	2B	*	J19-3296-03	HEAD PHONE JACK HOLDER		
629	1D	*	J42-0083-05	POWER CORD BUSHING		
-	-	-	J61-0307-05	WIRE BAND		
630	3B	*	K29-3405-04	KNOB (K29-4293-04 ASSY)		
631	3A	*	K29-4210-03	POWER		
632	3A	*	K29-4213-04	KNOB ASSY MASTER VOLUME		
633	3A	*	K29-4215-04	KNOB INPUT SELECTOR		
634	3A	*	K29-4216-04	KNOB TONE, BAL, RECOUT SEL		
635	3B, 3C	*	K29-4293-13	KNOB CARTRIDGE		

L:Scandinavia K:USA P:Canada
Y:PK(Far East, Hawaii) T:England E:Europe
Y:AFES(Europe) X:Australia M:Other Areas

△ indicates safety critical components.

DESTINATION LIST

	Destination
KA-4040R	E, L, T, X, Y, M, P

AUDIO UNIT

X09-3422-70	E, T, X, Y, M, P
X09-3422-71	L

CONTROL UNIT

X11-3120-21	M
X11-3120-51	T
X11-3120-71	X
X11-3121-01	P
X11-3122-70	E, L
X11-3122-91	Y

PRE AMPLIFIER UNIT

X85-1010-10	E, L, T, X, Y, M, P
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PARTS LIST

KA-4040R

KA-4040R

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No. 2

Ref. No. 参照番号	Address 位置	New 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
640	1B	*	L07-0366-05	POWER TRANSFORMER	EL	
640	1B	*	L07-0367-05	POWER TRANSFORMER	TX	
640	1B	*	L07-0368-05	POWER TRANSFORMER	YM	
640	1B	*	L07-0369-05	POWER TRANSFORMER	P	
645	1D	*	N08-0128-35	BINDING POST (EARTH)		
A	1B, 1C	*	N09-0333-05	TAPPING SCREW (3X12)		
C	2A, 3A	*	N09-1445-05	SET SCREW (M3X8)		
E	1A	*	N09-2768-05	TAPTITE SCREW (4X8)		
F	2A	*	N30-3008-46	PAN HEAD MACHIN SCREW		
G	1C, 1D	*	N89-3008-45	BINDING HEAD TAPTITE SCREW		
J	3C, 3D	*	N89-4008-45	BINDING HEAD TAPTITE SCREW		
K	3C, 3D	*	N17-1030-46	TOOTHED LOCK WASHER		
Q1, 2		*	2SD1717BD*5	TRANSISTOR		
Q3, 4		*	2SB1162BD*5	TRANSISTOR		
Q5, 6		*	2SC4137F19(V, W)	TRANSISTOR		
AUDIO UNIT (X09-3422-70: E, T, X, Y, M, P, 2-71: L)						
C1, 2		*	CF92FV1H101K	MF 100PF K		
C3, 4		*	CF92FV1H471J	MF 470PF J		
C5, 6		*	CF92FV1H122J	MF 1200PF J		
C9, 10		*	CC45FSL1H390J	CERAMIC 39PF J		
C11, 12		*	CF92FV1H332J	MF 3300PF J		
C13, 14		*	C90-1951-05	ALUMINIUM ELECTROLYTIC C.		
C25, 38		*	CF92FV1H151K	MF 150PF K		
C51, 52		*	CE04KW2A3R3M	ELECTRO 3.3UF 100WV		
C53, 54		*	CC45FSL1H121J	CERAMIC 120PF J		
C55, 56		*	CF92FV1H121K	MF 120PF K		
C57, 58		*	C90-1917-05	ELECTRO 100UF 16WV		
C59, 60		*	CC45FSL1H150J	CERAMIC 15PF J		
C61, 62		*	CE04KW1V100M	ELECTRO 10UF 35WV		
C63, 64		*	CK45FB1H222K	CERAMIC 2200PF K		
C65, 66		*	CC45FSL1H100D	CERAMIC 10PF D		
C67, 68		*	CF92FV1H333J	MF 0.033UF J		
C69, 72		*	CF92FV1H104J	MF 0.10UF J		
C73, 76		*	CF92FV1H472J	MF 4700PF J		
C77, 82		*	CK45FB1H102K	CERAMIC 1000PF K		
C83, 84		*	CF92FV1H683J	MF 0.068UF J		
C85, 86		*	CF92FV1H473J	MF 0.047UF J		
C101-112		*	CE04KW1V470M	ELECTRO 47UF 35WV		
C115-118		*	CE04KW1V470M	ELECTRO 47UF 35WV		
C123, 124		*	CC45FSL1H470J	CERAMIC 47PF J		
C155, 156		*	CE04KW1J100M	ELECTRO 10UF 63WV		
C161		*	CF92FV1H103J	MF 0.010UF J		
C166-169		*	CE04KW2A010M	ELECTRO 1.0UF 100WV		
C170		*	CE04KW1C220M	ELECTRO 22UF 16WV		
C171		*	C90-1333-05	NP-ELEC 22UF 10WV		
C172		*	CE04KW1C330M	ELECTRO 33UF 16WV		
C173, 174		*	C90-1824-15	ALUMINIUM ELECTROLYTIC C.		
C175		*	CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C177, 178		*	CK45FB2H103P	CERAMIC 0.010UF P		
C179, 180		*	CE04KW1J102M	ELECTRO 1000UF 63WV		
C181		*	CK45FF1H103Z	CERAMIC 0.010UF Z		
C183		*	CF92FV1H223J	MF 0.022UF J		
C184		*	CE04KW2A010M	ELECTRO 1.0UF 100WV		
C187, 188		*	CE04KW1E221M	ELECTRO 220UF 25WV		

L:Scandinavia K:USA P:Canada
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△ indicates safety critical components.

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No. 3

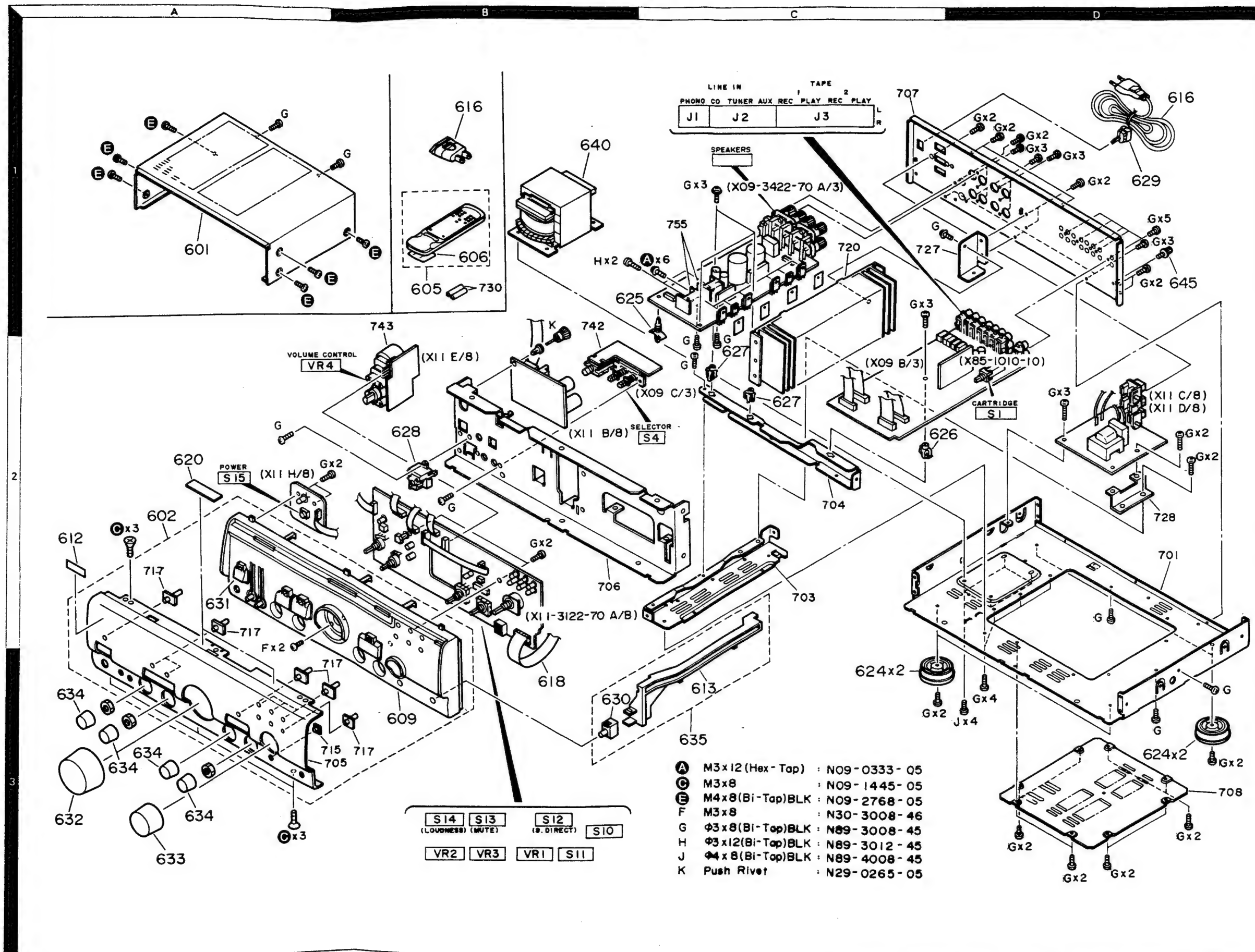
Ref. No. 参照番号	Address 位置	New 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C189, 190		*	CE04KW1V100M	ELECTRO 10UF 35WV		
C191		*	CE04KW1C101M	ELECTRO 100UF 16WV		
C195, 196		*	CE04KW1H101M	ELECTRO 100UF 50WV		
C197, 198		*	CC45FSL2H221J	CERAMIC 220PF J		
C199-204		*	CE04KW1H010M	ELECTRO 1.0UF 50WV		
C205, 206		*	CE04KW1E101M	ELECTRO 100UF 25WV		
J1		*	E13-0249-05	PHONE JACK PHONE		
J2		*	E13-0633-05	PHONE JACK CD, TUNER, AUX		
J3		*	E13-0825-05	PHONE JACK TAPE1, TAPE2		
J4		*	E20-0839-15	SCREW TERMINAL BOARD SPEAKERS		
J4		*	E20-0840-15	SCREW TERMINAL BOARD SPEAKERS		
J5		*	E11-0208-05	PHONE JACK PHONES		
J10		*	E11-0188-05	PHONE JACK SYSTEM CONTROL		
-		*	J11-0098-05	WIRE CLAMPER		
-		*	J61-0307-05	WIRE BAND		
L1, 2		*	L40-1011-47	SMALL FIXED INDUCTOR(100UH, K)		
L3, 4		*	L39-0085-05	PHASE-COMPENSATION COIL		
L5, 6		*	L40-1011-17	SMALL FIXED INDUCTOR(100UH, K)		
G	1C, 2C	*	N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	1C, 2C	*	N89-3012-45	BINDING HEAD TAPTITE SCREW		
CP1, 2		*	R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R73, 74		*	RN14BK2C1003PTS	RN 100K F 1/6W		
R77, 78		*	RN14BK2C3480PTS	RN 348.0 F 1/6W		
R83, 86		*	RD14AB2E100JTS	FL-PROOF RD 10 J 1/4W		
R93, 94		*	RN14BK2E1003PTS	RN 100K F 1/4W		
R95, 96		*	RN14BK2E6192PTS	RN 61.9K F 1/4W		
R99, 100		*	RS14GB3A100JJKW	FL-PROOF RS 10 J 1W		
R101, 102		*	RD14AB2E8R2JTS	FL-PROOF RD 8.2 J 1/4W		
R103, 104		*	RS14GB3A100JJKW	FL-PROOF RS 10 J 1W		
R105, 106		*	RS14GB3D151JTE	FL-PROOF RS 150 J 2W		
R107, 108		*	RN14BK2E68R1PTS	RN 68.1 F 1/4W		
R111, 112		*	RN14BK2E2372PTS	RN 23.7K F 1/4W		
R220		*	RS14GB3D121JTE	FL-PROOF RS 120 J 2W		
R221		*	RS14GB3D181JTE	FL-PROOF RS 180 J 2W		
R239		*	RS14GB3D102JTE	FL-PROOF RS 1.0K J 2W		
R243		*	RS14GB3A220JJKW	FL-PROOF RS 22 J 1W		
R244		*	RS14GB3A101JJKW	FL-PROOF RS 100 J 1W		
VR1, 2		*	R12-1083-05	TRIM POT. 1K		
K1		*	S51-2092-05	MAGNETIC RELAY		
K2, 7		*	S51-2089-05	MAGNETIC RELAY		
S1		*	S40-6035-05	PUSH SWITCH		
S4		*	S42-2139-05	MULTIPLE PUSH SWITCH		
D1, 28		*	HSS104	DIODE		
D1, 28		*	1SS133	DIODE		
D29, 30		*	HSS104A	DIODE		
D29, 30		*	1SS131	DIODE		
D31, 32		*	HZS24N(B)	ZENER DIODE		
D31, 32		*	R024ES(B)	ZENER DIODE		
D33, 38		*	HZS11N(B)	ZENER DIODE		
D33, 38		*	RD11ES(B)	ZENER DIODE		
D49		*	HZS5.1S(B2)	ZENER DIODE		
D49		*	RD5.1JS(B2)	ZENER DIODE		

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PARTS LIST

KA-4040R



Parts with the exploded numbers larger than 700 are not supplied.

* New Parts

Parts without Parts No. are not supplied

Les articles non mentionnés dans le Parts No. ne sont pas fournis

Teile ohne Parts No. werden nicht geliefert

No. 4

Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
D50 D50 D51 D51 D52 ,53			HZS15S(B) RD15JS(B) HZS20S(B) RD20JS(B) HSS104A	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		
D52 ,53 D54 D54 D55 D55			1SS131 D5SBA20F03 RBV-602LFA HSS104A 1SS131	DIODE DIODE DIODE DIODE DIODE		
D60 -68 D60 -68 IC1 ,2 IC13 IC17,18		*	HSS104A 1SS131 UPC1298V UPC1237HA ON3134	DIODE DIODE IC(POWER AMP DRIVER) IC(POWER AMP) IC(OPTICAL ISOLATOR)		
IC19-22 IC23 Q1 -4 Q5 ,6 Q7 -10			LC4966 NJM4565D-D 2SC2878(B) 2SC1845(F,E) DTC143TS	IC(CMOS LOGIC BILATERAL SW) IC(OP AMP X2) TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q15 Q16 ,17 Q21 Q22 Q23 ,24			2SA992(F,E) DTC143TS 2SD882(Q,P) 2SB772(Q,P) 2SD882(Q,P)	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q25 Q26			DTA124ES DTC143TS	DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
CONTROL UNIT (X11-3121-XX)						
D14 -22 D33			B30-1291-05 B30-1291-05	LED LED		
C1 ,2 C3 -8 C9 -12 C13 -16 C17 -20			CF92FV1H334J CF92FV1H101K CF92FV1H334J CE04KW1H100M CF92FV1H223J	MF MF MF ELECTRO MF	0.33UF J 100PF K 0.33UF J 10UF 35WV 0.022UF J	
C21 ,22 C23 ,24 C25 ,26 C27 ,28 C29 ,30			CE04KW1H010M CF92FV1H561J CF92FV1H101K CF92FV1H331K CF92FV1H683J	ELECTRO MF MF MF MF	1.0UF 50WV 560PF J 100PF K 330PF K 0.068UF J	
C102 C103 C104 C105,106 C107			CF92FV1H471J CE04KW1H100M C90-1827-05 CK45FB1H332K CF92FV1H223J	MF ELECTRO BACKUP CERAMIC MF	470PF J 10UF 50WV 0.047F 5.5WV 3300PF K 0.022UF J	
C108 C109 C110 C111,112 C113,114			CF92FV1H103J CE04KW1H4R7M CE04KW1H010M CE04KW1E331M CE04KW1E470M	MF ELECTRO ELECTRO ELECTRO ELECTRO	0.010UF J 4.7UF 50WV 1.0UF 50WV 330UF 25WV 47UF 25WV	
C116,117 C118 C119 C120			CF92FV1H103J CE04KW1H100M CF92FV1H103J CE04KW1E102M	MF ELECTRO MF ELECTRO	0.010UF J 10UF 50WV 0.010UF J 1000UF 25WV	

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* New Parts

Parts without Parts No. are not supplied

Les articles non mentionnés dans le Parts No. ne sont pas fournis

Teile ohne Parts No. werden nicht geliefert

No. 5

Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C122,123 C124 C125 C126,127 C130			CE04KW1J102M CE04KW1A221M CF92FV1H223J CE04KW1H100M CF92FV1H104J	ELECTRO ELECTRO MF ELECTRO MF	1000UF 63WV 220UF 10WV 0.022UF J 10UF 50WV 0.10UF J	
C131 C132 C133,134 C135 C136			CE04KW1H470M CE04KW1V101M CF92FV1H104J C90-1332-05 CE04KW1H100M	ELECTRO ELECTRO MF NP-ELEC ELECTRO	47UF 50WV 100UF 35WV 0.10UF J 10UF 25WV 10UF 50WV	
C138-140 C141 C142 C143 C188,189			CE04KW1H100M CE04KW1H4R7M CK45FF1H103Z CK45FE2H103P C91-1421-05	ELECTRO ELECTRO CERAMIC CERAMIC FILM	10UF 50WV 4.7UF 50WV 0.010UF Z 0.010UF P 0.01UF 250AC	ELTXM
C190,191 C190,191 C215,216 C217			C91-0971-05 C91-1421-05 CF92FV1H103J CK45FB1H471K	FILM FILM MF CERAMIC	0.01UF 250WV 0.01UF 250AC 0.010UF J 470PF K	P Y
J1 J1 J2			E03-0108-05 E03-0109-05 E03-0111-05	AC OUTLET AC OUTLET AC OUTLET		ELM T YP
F1 F1 ,2 F3 F3 ,4			F04-5022-05 F05-2525-05 F05-2525-05 F05-2525-05	FUSE (UL) FUSE (SEMKO) FUSE (SEMKO) FUSE (SEMKO)	(125V 5A UL) (250V T2.5A) (250V T2.5A) (250V T2.5A)	P Y TX ELM
CN3 -6 CN3 ,4 CN13-16 CN13,14			J13-0075-05 J13-0075-05 J13-0075-05 J13-0075-05	FUSE CLIP FUSE CLIP FUSE CLIP FUSE CLIP		Y P ELM TX
L1 ,2 L40 -42 T1 T1 T2 X1			L40-1021-14 L40-1021-14 L01-7651-05 L01-7653-05 L01-7653-05 L01-7657-05 L78-0267-05	SMALL FIXED INDUCTOR(1.0MH,K) SMALL FIXED INDUCTOR(1.0MH,K) POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER RESONATOR	4MHz	P Y ELM TX
G H	2A, 3B 2A, 3B		N89-3008-45 N89-3012-45	BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
R39 ,40 R113,114 R160 R174 R175			RN14BK2C1211FTS RS14DB3D222JTE RS14DB3A470JTE RS14DB3D470JTE RS14DB3A220JTE	RN FL-PROOF RS FL-PROOF RS FL-PROOF RS FL-PROOF RS	1.21K F 1/6W 2.2K J 2W 47 J 1W 47 J 2W 22 J 1W	
R176,177 R180,181 R190 R191 R194			RS14DB3A100JTE RS14DB3D121JTE RS14DB3D820JTE RD14AB2E120JTS RS14DB3A152JTE	FL-PROOF RS FL-PROOF RS FL-PROOF RS FL-PROOF RD FL-PROOF RS	10 J 1W 120 J 2W 82 J 2W 12 J 1/4W 1.5K J 1W	
VR1 VR2 ,3 VR4		*	R06-5191-05 R06-3061-05 R29-5058-05	POTENTIOMETER BALANCE POTENTIOMETER BASS, TREBLE POTENTIOMETER MASTER VOLUME		

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PARTS LIST

KA-4040R

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

No. 6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
K1			S51-1052-05	MAGNETIC RELAY	YP	
K2			S51-1052-05	MAGNETIC RELAY	ELTXM	
S11		*	S60-0009-05	ROTARY SWITCH RECOUT SELECTOR		
S12 -15			S40-1064-05	PUSH SWITCH	M	
S16			S31-2322-05	SLIDE SWITCH VOLTAGE SELECT		
S16 ,17			S62-0001-05	SLIDE SWITCH VOLTAGE SELECT	Y	
S17			S62-0001-05	SLIDE SWITCH VOLTAGE SELECT	M	
S10		*	T99-0521-05	ROTARY ENCODER INPUT SELECTOR		
D10 -13			HSS104	DIODE		
D10 -13			1SS133	DIODE		
D23			HZS2.7N(B)	ZENER DIODE		
D23			RD2.7ES(B)	ZENER DIODE		
D24			HSS104	DIODE		
D24			1SS133	DIODE	YP	
D25			HSS104A	DIODE	YP	
D25			1SS131	DIODE		
D26 -32			S56888	DIODE		
D34 -39			HSS104	DIODE		
D34 -39			1SS133	DIODE		
D40			S56888	DIODE		
D41			HSS104	DIODE		
D41			1SS133	DIODE		
D42			S56888	DIODE		
D43 ,44			HZS16N(B2)	ZENER DIODE		
D43 ,44			RD16ES(B2)	ZENER DIODE		
D45			HSS104	DIODE		
D45			1SS133	DIODE	ELTXM	
D46			HSS104A	DIODE		
D46			1SS131	DIODE	ELTXM	
D51			HZS24N(B)	ZENER DIODE		
D51			RD24ES(B)	ZENER DIODE		
D52			S56888	DIODE		
D53			HSS104	DIODE		
D53			1SS133	DIODE		
D54			HSS104A	DIODE		
D54			1SS131	DIODE		
IC1			NJM4560D-D	IC(OP AMP X2)		
IC2			PST529C	IC(SYSTEM RESET)		
IC3		*	UPD75104GF-778	IC		
IC4			TC9163N	IC(BILATERAL SWITCH X16)		
IC5			TA8409S	IC(MOTOR CONTROL)		
IC6			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
IC6			UPC7805HF	IC(VOLTAGE REGULATOR/ +5V)		
IC11			TA7812S	IC(VOLTAGE REGULATOR/ +12V)		
IC11			UPC7812HF	IC(VOLTAGE REGULATOR/ +12V)		
Q1 ,2			2SC2878(B)	TRANSISTOR		
Q51			DTA124ES	DIGITAL TRANSISTOR		
Q51			UN4112	TRANSISTOR		
Q52			DTC124ES	DIGITAL TRANSISTOR		
Q52			UN4212	TRANSISTOR		
Q53			2SC1740S(Q,R)	TRANSISTOR		
Q53			2SC3311A(Q,R)	TRANSISTOR		
Q54			2SC2003(L,K)	TRANSISTOR		

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× New Parts

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Teile ohne Parts No. werden nicht geliefert.

No. 7

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
Q55			2SA1309A(Q,R)	TRANSISTOR		
Q55			2SA933S(Q,R)	TRANSISTOR		
Q56			2SD1266(Q,P)	TRANSISTOR		
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		
PRE AMPLIFIER UNIT (X85-1010-010)						
C1 ,2			CF92FV1H392J	MF 3900PF J		
C3 ,4			CF92FV1H113J	MF 0.011UF J		
C5 ,6			CF92FV1H393J	MF 0.039UF J		
C7 ,8			C90-1332-05	NP-ELEC 10UF 25WV		
R7 ,8			RN14BK2C6811FTS	RN 6.81K F 1/6W		
R9 ,10			RN14BK2C8252FTS	RN 82.5K F 1/6W		
IC1			NJM4560D-N	IC		
Q5 -8			2SK170(BL)	FET		
Q5 -8			2SK170(V)	FET		

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KA-4040R

PARTS LIST

SPECIFICATIONS

(For U.K. and Europe)

Continuous rated power output

(DIN) 1 kHz, at 8 Ω	70 W + 70 W
at 4 Ω	90 W + 90 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.	
at 8 Ω	70 W + 70 W
at 4 Ω	90 W + 90 W
Dynamic power.....	90 W (8 Ω)
	120 W (4 Ω)
	140 W (2 Ω)

Total harmonic distortion

..... 0.06% (20 Hz ~ 20,000 Hz, 60 W, 8 Ω)	
..... 0.03% (1 kHz, 60 W, 8 Ω)	

Intermodulation distortion 0.06% (60 W, 8 Ω)
(70 Hz : 7 kHz = 4:1)

Frequency response

CD 5 Hz ~ 100 kHz, +0 dB, -3 dB

PHONO 'RIAA' response

..... 20 Hz ~ 20 kHz, +0.3 dB, -0.3 dB

Maximum input level

PHONO (MM) 120 mV, 0.06% T.H.D. at 1 kHz

PHONO (MC) 10 mV, 0.06% T.H.D. at 1 kHz

Signal to noise ratio

PHONO (MM) 87 dB (IHF '66)/80 dB (IHF '78)

PHONO (MC) 67 dB (IHF '66)/74 dB (IHF '78)

CD/TUNER/AUX/TAPE

..... 101 dB (IHF '66)/82 dB (IHF '78)

PHONO (MM) 58 dB (DIN, 50 mW output)

CD/TUNER/AUX/TAPE

..... 59 dB (DIN, 50 mW output)

Input sensitivity/impedance

PHONO (MM).....	2.5 mV/47 k Ω
PHONO (MC).....	0.2 mV/100 Ω
CD/TUNER/AUX/TAPE.....	200 mV/47 k Ω

Tone control

BASS ± 10 dB (at 100 Hz)TREBLE..... ± 10 dB (at 10 kHz)

Loudness control

VOLUME at -30 dB level

..... +6 dB (100Hz), +3 dB (10 kHz)

Output level/impedance

TAPE REC..... 200 mV/1 k Ω

General

Power consumption 200 W

AC outlet

SWITCHED 200 W max.

Dimensions..... W: 440 mm (17-5/16")

H: 137 mm (5-3/8")

D: 345 mm (13-9/16")

Weight (net) 8.7 kg (19.2 lb)

(For other countries)

Continuous rated power output

(IHF '66) From 20 Hz to 20,000 Hz 0.06% T.H.D.	
..... at 8 Ω	60 W + 60 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.	
at 8 Ω	70 W + 70 W
at 4 Ω	90 W + 90 W
Dynamic power.....	90 W (8 Ω)
	120 W (4 Ω)
	140 W (2 Ω)

Damping factor..... 60 (50 Hz)

Total harmonic distortion

..... 0.06% (20 Hz ~ 20,000 Hz, 60 W, 8 Ω)	
..... 0.03% (1 kHz, 60 W, 8 Ω)	

Intermodulation distortion 0.06% (60 W, 8 Ω)
(70 Hz : 7 kHz = 4:1)

Frequency response

CD 5 Hz ~ 100 kHz, +0 dB, -3 dB

PHONO 'RIAA' response

..... 20 Hz ~ 20 kHz, +0.3 dB, -0.3 dB

Maximum input level

PHONO (MM) 120 mV, 0.06% T.H.D. at 1 kHz

PHONO (MC) 10 mV, 0.06% T.H.D. at 1 kHz

Signal to noise ratio

PHONO (MM) 87 dB (IHF '66)/80 dB (IHF '78)

PHONO (MC) 67 dB (IHF '66)/74 dB (IHF '78)

CD/TUNER/AUX/TAPE

..... 101 dB (IHF '66)/82 dB (IHF '78)

Input sensitivity/impedance

PHONO (MM).....	2.5 mV/47 k Ω
PHONO (MC).....	0.2 mV/100 Ω
CD/TUNER/AUX/TAPE.....	200 mV/47 k Ω

Tone control

BASS ± 10 dB (at 100 Hz)TREBLE..... ± 10 dB (at 10 kHz)

Loudness control

VOLUME at -30 dB level

..... +6 dB (100Hz), +3 dB (10 kHz)

Output level/impedance

TAPE REC..... 200 mV/1 k Ω

General

Power consumption 200 W

AC outlet

SWITCHED Total 200 W max.

Dimensions..... W: 440 mm (17-5/16")

H: 137 mm (5-3/8")

D: 345 mm (13-9/16")

Weight (net) 8.7 kg (19.2 lb)

KA-4040R

SPECIFICATIONS

(For Canada)

Continuous rated power output (FTC)

60 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20,000 Hz with no more than 0.06% total harmonic distortion.

Dynamic power.....	90 W (8 Ω)
.....	120 W (4 Ω)
.....	140 W (2 Ω)
Damping factor.....	60 (50 Hz)
Total harmonic distortion	0.06% (20 Hz ~ 20,000 Hz, 60 W, 8 Ω)
.....	0.03% (1 kHz, 60 W, 8 Ω)
Intermodulation distortion.....	0.06% (60 W, 8 Ω)
(70 Hz : 7 kHz = 4:1)	
Frequency response	
CD.....	5 Hz ~ 80 kHz, +0 dB, -3 dB
PHONO 'RIAA' response	20 Hz ~ 20 kHz, +0.3 dB, -0.3 dB
Maximum input level	
PHONO (MM).....	120 mV, 0.06% T.H.D. at 1 kHz
PHONO (MC).....	10 mV, 0.06% T.H.D. at 1 kHz
Signal to noise ratio	
PHONO (MM).....	87 dB (IHF '66)/80 dB (IHF '78)
PHONO (MC)	67 dB (IHF '66)/74 dB (IHF '78)
CD/TUNER/AUX/TAPE.....	101 dB (IHF '66)/82 dB (IHF '78)
Input sensitivity/impedance	
PHONO (MM).....	2.5 mV/47 k Ω
PHONO (MC)	0.2 mV/100 Ω
CD/TUNER/AUX/TAPE.....	200 mV/47 k Ω
Tone control	
BASS.....	\pm 10 dB (at 100 Hz)
TREBLE	\pm 10 dB (at 10 kHz)
Loudness control	
VOLUME at - 30 dB level	+ 6 dB (100Hz), + 3 dB (10 kHz)
Output level/impedance	
TAPE REC	200 mV/1 k Ω

General

Power consumption	2.5 A
AC outlets	
SWITCHED	For Canada:
	3; (Total 200 W, 1.6 A max.)
Dimensions	W: 440 mm (17-5/16")
	H: 137 mm (5-3/8")
	D: 345 mm (13-9/16")
Weight (net)	8.7 kg (19.2 lb)

Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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